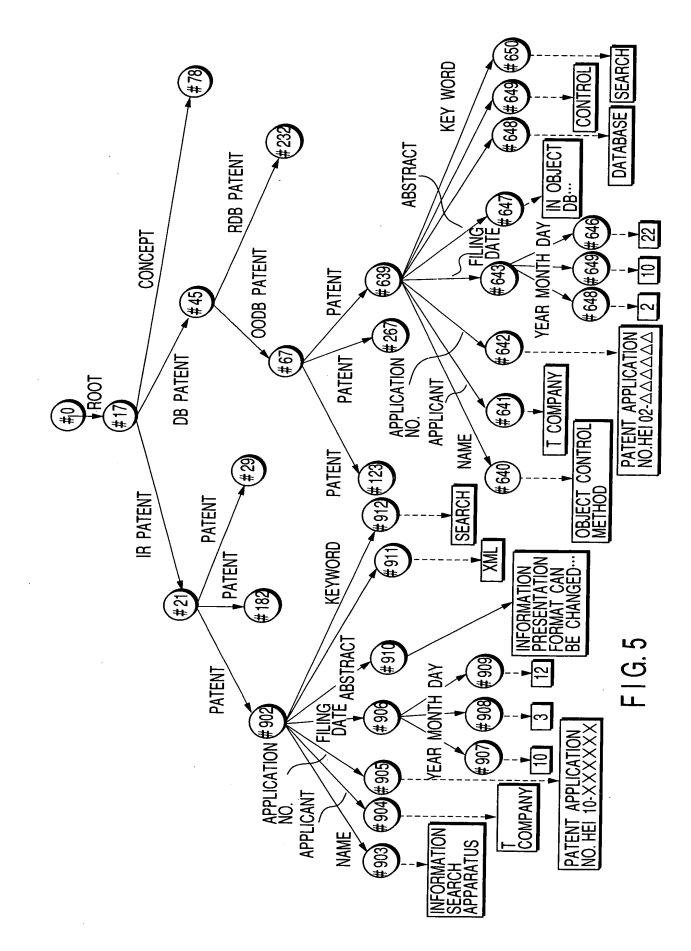


TO PROVIDE DATABASE ALLOWING TO CHANGE AS WILL INFORMATION PRESENTATION FORMAT FROM THE JSER'S VIEWPOINT, TO ENLARGE INFORMATION EXPLOITATION RANGE, AND TO PROMOTE INFORMATION <NAME>INFORMATION SEARCH APPARATUS</NAME>
<APPLICANT.>T COMPANY</APPLICANT>
<APPLICANTION NO.>PATENT APPLICATION HEI 10-XXXXXXX/APPLICATION NO.>
<FILING DATE> <YEAR>10</YEAR><MONTH>3</MONTH><DAY>12</DAY> (KEY WORD>XML</KEY WORD> (KEY WORD>SEARCH</KEY WORD> /FILING DATE> **EXPLOITATION.** /ABSTRACT> ABSTRACT>

F1G.2

F I G. 3

FIG. 4



I SHI WY SHAN

TO PROVIDE A DATABASE ALLOWING TO CHANGE AS WILL INFORMATION PRESENTATION FORMAT FROM THE USER'S VIEWPOINT, TO ENLARGE INFORMATION EXPLOITATION RANGE,AND TO PROMOTE INFORMATION EXPLOITATION. <NAME>NFORMATION SEARCH APPARATUS</name>
<APPLICANT.>T COMPANY</APPLICANT>
<APPLICANTION NO.>PATENT APPLICATION HEI 10-XXXXXXXXAPPLICATION NO.>
<FILING DATE>
<YEAR>10</YEAR><MONTH>3</MONTH><CAPPLICAY> <KEY WORD>SEARCH</KEY WORD> <KEY WORD>XML</KEY WORD> (/FILING DATE> </ABSTRACT> <ABSTRACT> INSERT "ROOT / IR PATENT" "<PATENT>

F1G.6

```
SELECT
<DOCUMENT>
   <aPPLICATION NO.>$x1</aPPLICATION NO.>
 </DOCUMENT>
WHERE
<*/PATENT>
   <a>APPLICATION NO.>$x1</a>APPLICATION NO.>
   <KEY WORD>$x2</KEY WORD>
 </PATENT>FROM "ROOT/"
 $x2= "SEARCH"
```

FIG.7

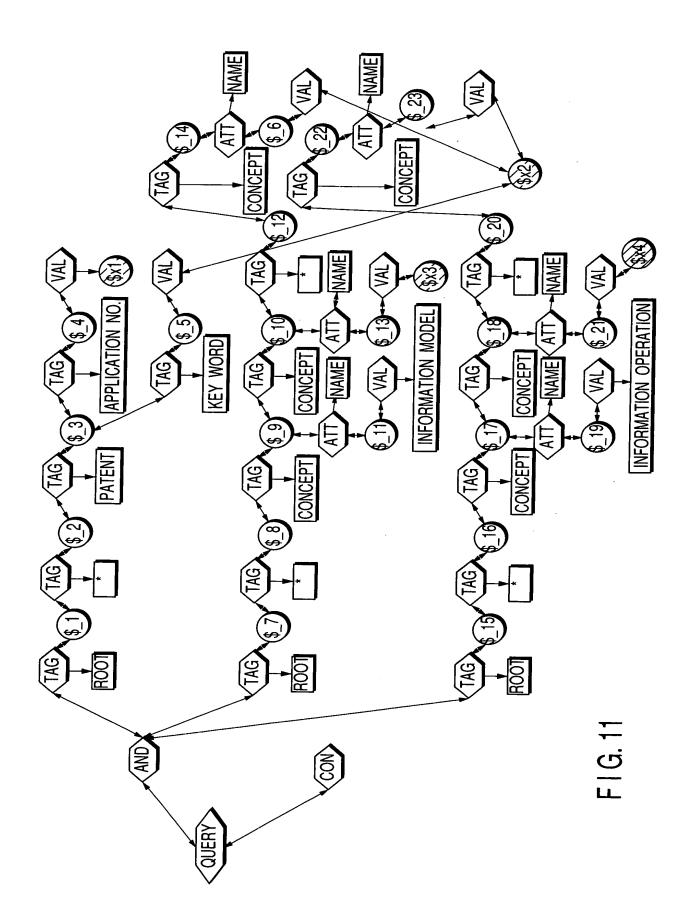
```
SELECT
<DOCUMENT>
   <a>PPLICATION NO.>$x1</a>PPLICATION NO.></a>
 </DOCUMENT>
WHERE
<*/PATENT>
   <APPLICATION NO.>$x1</application NO.>
   <KEY WORD>$x2</KEY WORD>
 </PATENT>FROM "ROOT/"
 <CONCEPT NAME= "DOCUMENT" >
   <*/CONCEPT NAME=$x2/>
 </CONCEPT NAME>FROM "ROOT/"
```

FIG.8

F I G. 9

```
SELECT
 <DOCUMENT>
   <APPLICATION NO.>$x1</aPPLICATION NO.>
   <CLASSIFICATION AXIS= "INFORMATION MODEL" >$x3</>
   <CLASSIFICATION AXIS= "INFORMATION OPERATION" >
    $x4</CLASSIFICATION>
 </DOCUMENT>
WHERE
 <*/PATENT>
   <APPLICATION NO.>$x1</application NO.>
   <KEY WORD>$x2</KEY WORD>
 </PATENT>FROM "ROOT/"
 <*/CONCEPT NAME= "INFORMATION MODEL" >
  <CONCEPT NAME=$x3>
    <*/CONCEPT NAME=$x2/>
  </CONCEPT >
 </CONCEPT > FROM "ROOT/"
 <*/CONCEPT NAME= "INFORMATION OPERATION" >
  <CONCEPT NAME=$x4>
    <*/CONCEPT NAME=$x2/>
  </CONCEPT >
 </CONCEPT>FROM "ROOT/"
```

```
<RESULT>
 <DOCUMENT>
   <APPLICATION NO.>PATENT APPLICATION HEI 10-XXXXXXX/APPLICATION NO.
 <CLASSIFICATION AXIS= "INFORMATION MODEL" > DOCUMENT < / CLASSIFICATION >
   <CLASSIFICATION AXIS= "INFORMATION OPERATION" >
    SEARCH</CLASSIFICATION>
 </document>
 <DOCUMENT>
   <APPLICATION NO.>PATENT APPLICATION HEI 09-
   <CLASSIFICATION AXIS= "INFORMATION MODEL" > RELATION < / CLASSIFICATION >
   <CLASSIFICATION AXIS= "INFORMATION OPERATION" >
    STORAGE</CLASSIFICATION>
</DOCUMENT>
<DOCUMENT>
   <APPLICATION NO.>PATENT APPLICATION HEI 10-0000
  <CLASSIFICATION AXIS= "INFORMATION MODEL" > RELATION < / CLASSIFICATION >
   <CLASSIFICATION AXIS= "INFORMATION OPERATION" >
    SEARCH</CLASSIFICATION>
</DOCUMENT>
</RESULT>
```



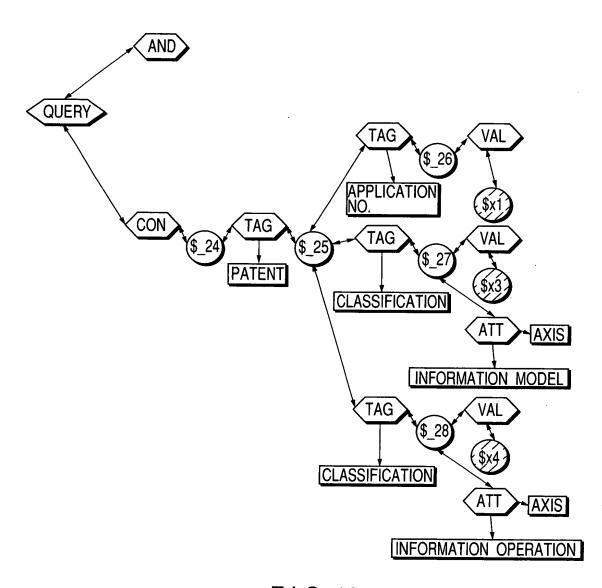


FIG. 12

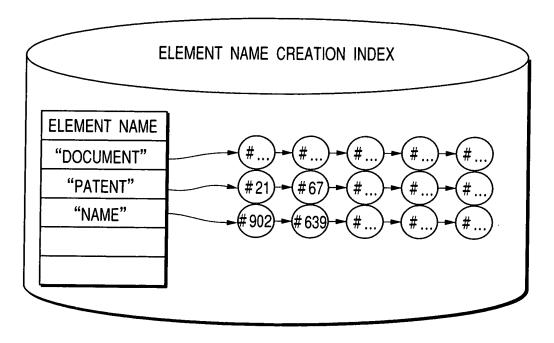


FIG. 13

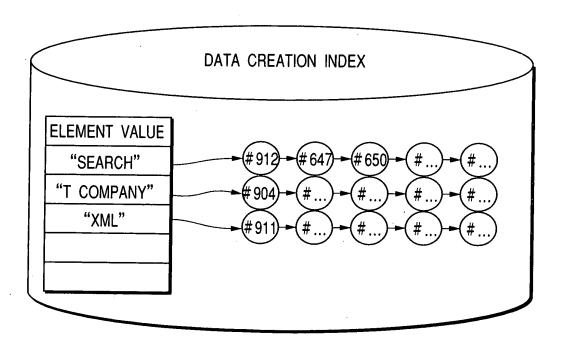


FIG. 14

13

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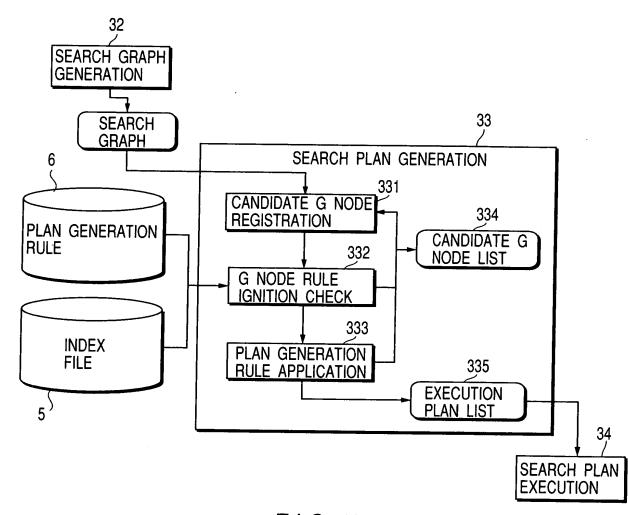


FIG. 15

	Τ-	T					····		
THEN	OPERATOR	PATHINST PATHEXPAND1 PATHEXPAND2	PATHEXPAND3	PATHCHECK NOP	NIOC	VALUE	SELECT		
	OTHERS	ELEMENT NAME CREATION INDEX EXISTS IN OP2	REVERSE HIERARCHIC INDEX EXISTS IN OP3	OP2 OF OP1 ADJACENT TAG NODE IS "ROOT"			Data Index for OP2 exists		
	OP2   OP3	zzz	Σ	≥≥					
	0P2	ZZZ	Σ	≥*	Σ	Z	ZΣ		
<u>"</u>	P F	S≥Z	z	ΣZ	×	<b>\S</b>	ΣZ		
COST			0.1	0.0	0.5	0.2	0.10		
G NODE		TAG TAGG	TAG	TAG	VAR	VAL	CMP	AND	
NO.		528	04	992	: =	≂	33.3	41	:

F1G. 16

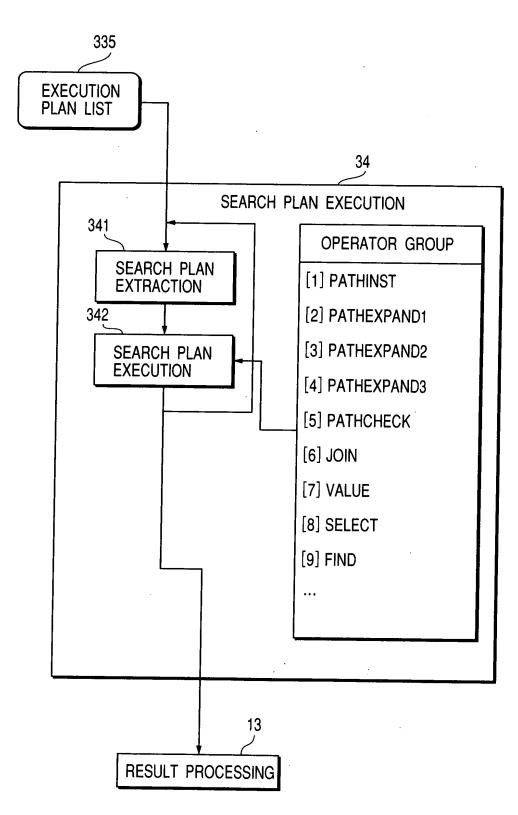


FIG. 17

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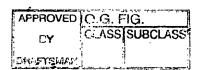


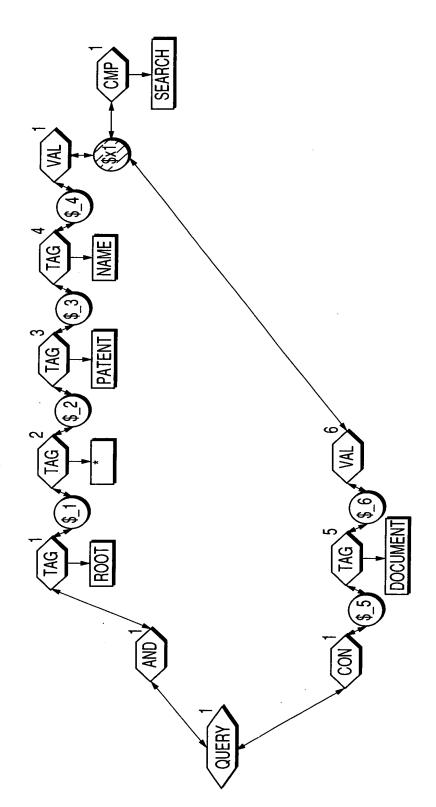
FIG. 19

STEP	G NODE	RULE NO.	OPERATOR
STEP1	CMP	APPLY RULE 32	FIND
STEP2	TAG	APPLY RULE 03	PATHEXPAND2
STEP3	TAG	APPLY RULE 02	PATHEXPAND1
STEP4	VAL	APPLY RULE 21	VALUE
STEP5	VAR	APPLY RULE 11	JOIN
STEP6	TAG	APPLY RULE 06	NOP
STEP7	CON	APPLY RULE	CONSTRUCT

F I G. 21

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F1G. 20

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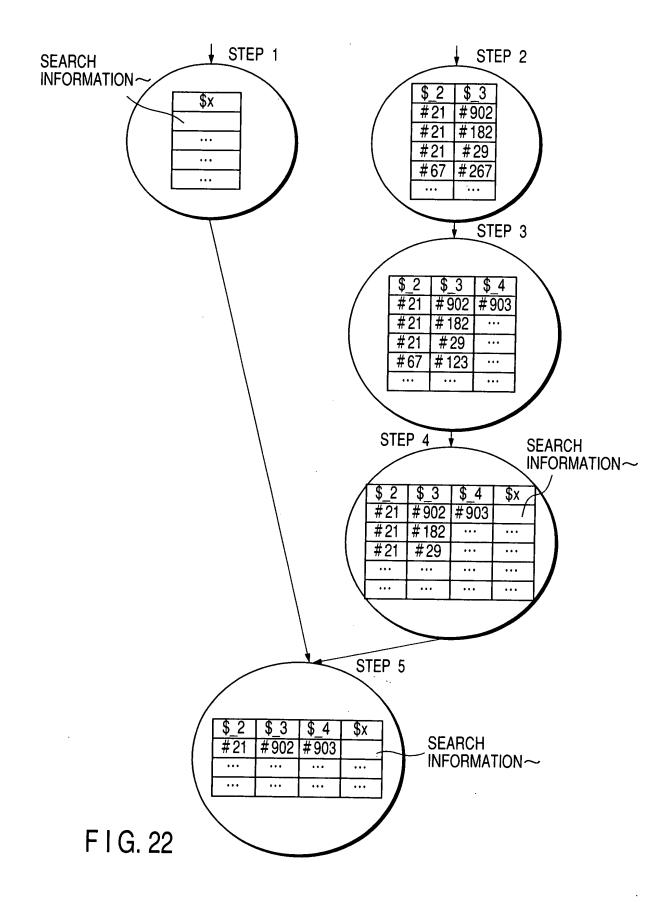
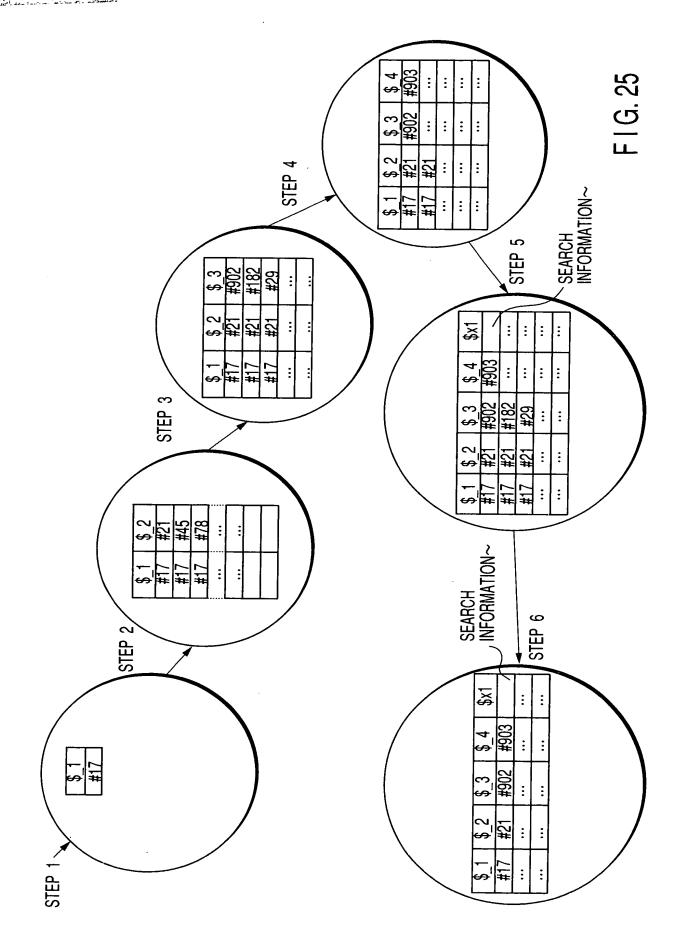


FIG. 23

STEP	G NODE	RULE NO.	OPERATOR
STEP 1	TAG	APPLY RULE 01	PATHINST
STEP 2	TAG	APPLY RULE 02	PATHEXPAND1
STEP 3	TAG	APPLY RULE 02	PATHEXPAND1
STEP 4	TAG	APPLY RULE 02	PATHEXPAND1
STEP 5	VAL	APPLY RULE 21	VALUE
STEP 6	CMP	APPLY RULE 31	SELECT
STEP 7	CON	APPLY RULE	CONSTRUCT

FIG. 24



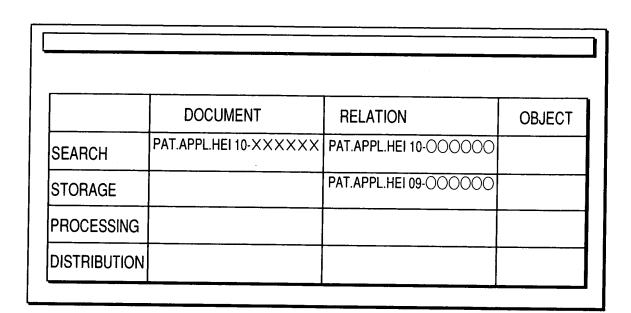


FIG. 26

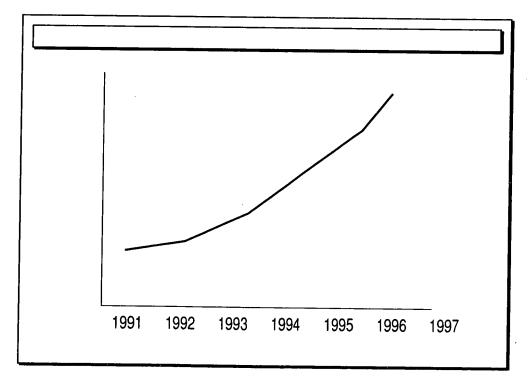


FIG. 27